

President's Malaria Initiative

Innovative Methods For Traditional Interventions



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PMI Background and Budget

- Launched in 2005, began in 3 countries
- Today: 21 countries and the Mekong Region
- Support four evidence based interventions (LLINs, IRS, IPTp, ACTs)

BUDGET FY 2006 – FY 2013:

- Total = ~ \$3.1 Billion
- FY 2013 budget = \$608 Million

PMI-Supported Malaria Programs



In addition, USAID provides malaria funding to Burkina Faso, Burundi and South Sudan in Africa and the regional Amazon Malaria Initiative in Latin America (which includes Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru and Suriname).



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Four Interventions

INSECTICIDE TREATED BED NETS

- Long lasting pyrethroid treated nets (LLINs) provide extra protection from mosquitoes than a regular bed net
- Though the entire population is targeted, special focus is placed on children under five and pregnant women

INDOOR RESIDUAL SPRAYING

- Spraying insecticide on interior walls of homes with one of four WHO approved insecticide classes for IRS
- Carbamates, organophosphates, organochlorines, pyrethroids

MALARIA IN PREGNANCY

- Administration of SP for intermittent preventive treatment of pregnant women (IPTp)
- Provision and promotion of ITN use
- Prompt diagnosis and treatment of anemia and malaria

CASE MANAGEMENT

- Improving malaria testing and treatment in health centers, RDTs & ACTs
- Training and supervision of physicians, laboratorians and medical personnel
- Health systems strengthening



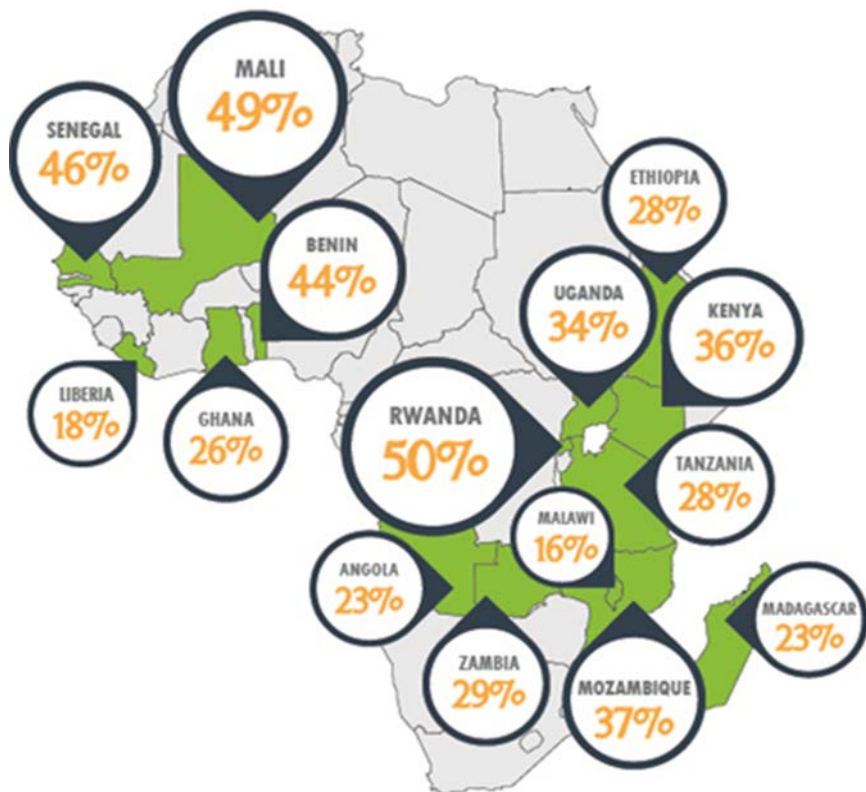
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PMI Approaches

Reductions in All-Cause Mortality Rates of Children Under Five



Note: All 15 original PMI focus countries included in this figure have at least two data points from nationwide household surveys that measured all-cause mortality in children under the age of five. Refer to Appendix 3 (Figure 1) for more detail.

- Since inception of PMI, overall all cause child mortality has significantly decreased, with malaria interventions playing a significant role
- PMI Impact Evaluations ongoing for all 15 original countries
- Efforts within all interventions to increase involvement of women and mothers to impact child mortality



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Innovation: All the Buzz



...Dr. Shah increases focus on technology & innovation...

The Global Development Lab

- Launched in 2014
- Focus on breakthrough technology and innovation

USAID FORWARD

- Launched in 2010
- Focus on three categories and seven reforms directly related to innovation and technology



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Environmental Responsibility: The Mobile Soak Pit

A 19-liter container (weighing about 15 kilos) with layers of stone, activated carbon, and sawdust, which can be installed almost anywhere. Carbon absorbs the majority of the active ingredient reducing amount left in the environment to nearly zero.

- Provides operational flexibility, reduces construction and labor costs compared to building permanent soak pits
- Mobile soak pits are used in Madagascar, Mali, Ethiopia and Senegal



a mobile soak pit helps minimize environmental impact

Community Based IRS in Ethiopia

In 2012, a new approach to IRS was piloted in Ethiopia—instead of operating at the district level, 39 health extension workers in 20 villages were trained to lead IRS from their community health posts.

Community based model saves on costs, but also:

- Encourages community ownership of IRS campaign
- Gives opportunities to females in leadership roles
- Facilitates trust between Spray Operators and communities



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A Health Extension Worker serves as a Community Mobilizer in a rural area

Smartphones and Environmental Compliance

Smartphones are being piloted in several countries to collect environmental compliance data, increasing accuracy and oversight



An Environmental Compliance Officer documents her work using smartphone technology

Environmental Compliance Officers and Managers are trained in using smartphone technology. Data is transmitted in real time using a GPS tracker to a central database for monitoring.



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Mobile Banking in Madagascar

Piloted during the 2013-2014 Spray Campaign in Madagascar, mobile banking is easy to implement and only requires that the worker have access to a cell phone. They get paid for their work via a SIM card, and pick up their money in a secure local location.

- Decreases the risk of theft
- Is cost effective
- Is secure and convenient
- Reduces costs compared to traditional cash payments
- Successful in Madagascar and will be spreading to other countries soon



Paulinette Ranivoarisoa using mobile banking in Madagascar



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“Insectary-In-A-Box”

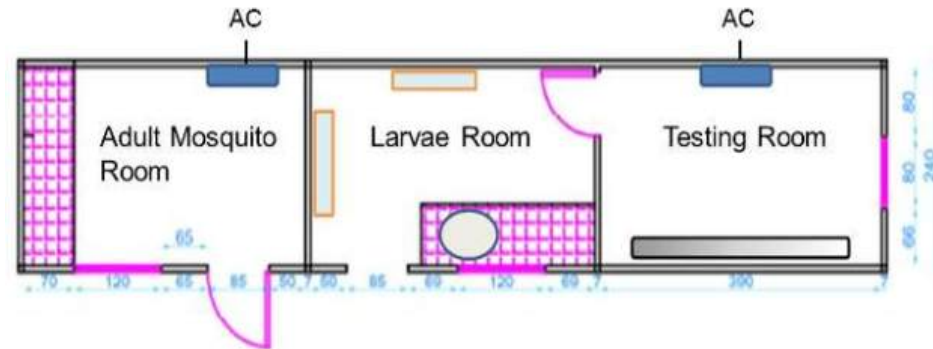
Entomological Monitoring

A cost effective, easy solution for entomological monitoring.

Without building or renting space, a mini-insectary can be created using a shipping container.



Shipping container converted into an insectary



- The first mobile insectary was built in Mali, and now Angola
- Divided into three rooms (above)
- Built for less than \$20,000
- Outfitted with AC and climate control



From Bottles to Pavement Blocks

Recycling Innovations

Disposing of Actellic CS (OP) bottles presented environmental and health complications for countries using this product.

The solution?

Make bricks for building roads and other structures from recycled materials...



Used Actellic CS bottles are converted to bricks for building roads in Ghana



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[Recycling in Ghana Video](#)

Durable Wall Lining

In 2011, PMI began piloting Durable Wall Linings: A thick, netted, insecticide treated liner hung on walls in homes that could potentially serve as a fifth evidence based intervention in the future.

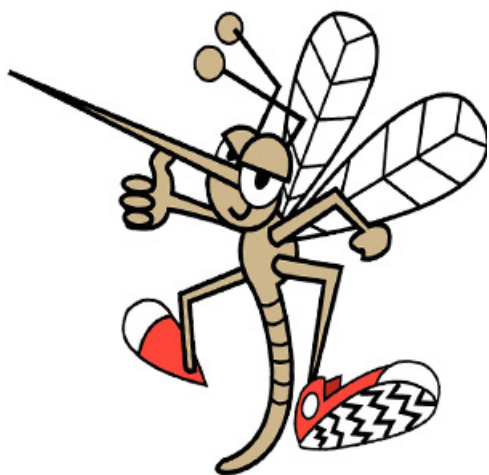
- Still in pilot stage in select African countries
- Could be combined with ITNs
- Unlike ITNs, the DWL not limited to pyrethroids, and could be an effective way to manage resistance/provide an alternative to IRS.



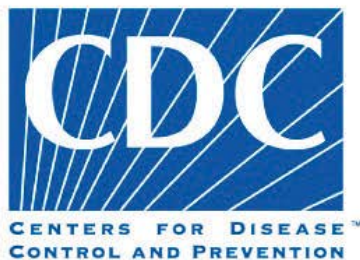
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THANK YOU!



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